

PATENT CLAIMS

1. A multicolor electroluminescent element, having
  - 5 - a substrate (1), which is at least partially transparent over at least part of its area, having a front side and a rear side,
  - a first electrode layer (2) situated on the rear side of the substrate (1),
  - 10 - a first electroluminescent layer (3), having electroluminophores (4) incorporated therein, situated on the side of the first electrode layer (1) facing away from the substrate (1),
  - a second electrode layer (6) situated on the side of the first electroluminescent layer (3) facing away from the substrate (1),
  - 15 - a third electrode layer (8) situated on the front side of the substrate (1),
  - a second electroluminescent layer (9), having electroluminophores (4) incorporated therein, situated on the side of the third electrode layer (8) facing away from the substrate (1),
  - 20 - a fourth electrode layer (10), situated on the side of the second electroluminescent layer (9) facing away from the substrate (1).
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2. The multicolor electroluminescent element according to claim 1, wherein the second and/or fourth electrode layer (6, 10) is a transparent  
30 conductive lacquer layer.
3. The multicolor electroluminescent element according to one of the preceding claims, wherein the first and/or third electrode layer (2, 8) is a  
35 transparent conductive lacquer layer.

4. The multicolor electroluminescent element according to one of claims 2 through 3, wherein at least one of the conductive lacquer layers (2, 6, 8, 10) at least predominantly comprises an electrically conductive polymer.  
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5. The multicolor electroluminescent element according to one of the preceding claims, wherein the first and/or third electrode layer (2, 8) is vapor deposited or sputtered onto the substrate.  
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6. The multicolor electroluminescent element according to one of the preceding claims, wherein the first and/or third electrode layer (2, 8) at least predominantly comprises indium-tin oxide.  
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7. The multicolor electroluminescent element according to one of the preceding claims, having an insulating layer (11), which is transparent over at least a part of its area, situated on the side of the fourth electrode layer (10) facing away from the substrate (1).  
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8. The multicolor electroluminescent element according to one of the preceding claims, having an insulating layer (7) situated on the side of the second electrode layer (6) facing away from the substrate (1).  
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9. The multicolor electroluminescent element according to one of the preceding claims, wherein the substrate (1) at least predominantly comprises polyethylene terephthalate.  
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10. The multicolor electroluminescent element according to one of the preceding claims, which  
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has one or more color-filtering and/or color-converting layers.

- 5        11. The multicolor electroluminescent element according to claim 10, wherein the substrate (1) has color-filtering and/or color-converting components.
- 10       12. The multicolor electroluminescent element according to one of the preceding claims, wherein the electroluminophores (4) incorporated in the first electroluminescent layer (3) have a different emission color than the electroluminophores incorporated in the second
- 15       electroluminescent layer (9).